2003 4th GRADE MAIN RANGEFINDER 3

Proficient application of basic skills

Well-defined structure

**Your teacher will read the entire test to you before you begin.
Do not use a calculator on this assessment.**

Effective mathematical vocabulary and communication skills

1. Maria and her family went camping and saw many birds. They saw 102 geese, 34 crows, 45 ducks, 16 robins and 23 bluebirds.

a. How many total birds did they see? *Show or explain how you found your answer.*

geese – 102
crows – 34
ducks – 45
robins – 16
bluebirds – 23

$$102$$
$$34$$
$$45$$
$$16$$
$$+23$$
$$220$$

There are 220 birds total.

b. There are five people in Maria's family. They have 20 slices of bread altogether. How many slices of bread will each person have to feed the birds? *Show or explain how you found your answer.*

$$5 \div 20 = 4$$

1 – 5
2 – 10
3 – 15
4 – 20

Adaptable processes

4 slices of bread to feed the birds.

c. Last year they saw twice as many crows as this year. How many crows did they see last year? *Show or explain how you found your answer.*

crows – 34

$$34$$
$$+34$$
$$68$$

They saw 68 Last year.

d. How many more geese did they see than ducks? *Show or explain how you found your answer.*

geese – 102
ducks – 45

$$\overset{0\,9}{\cancel{102}}$$
$$- 45$$
$$057$$

They saw 57 more geese then ducks.

> **Read problems 2, 3, 4, and 5 on this and the next two pages. Select three problems to answer. Answer ALL of the parts of the three problems you select to answer. Cross out the one problem that you do not choose to answer.**

2. Mrs. Smith's class asked each teacher to name their favorite fruit. Their choices are listed below.

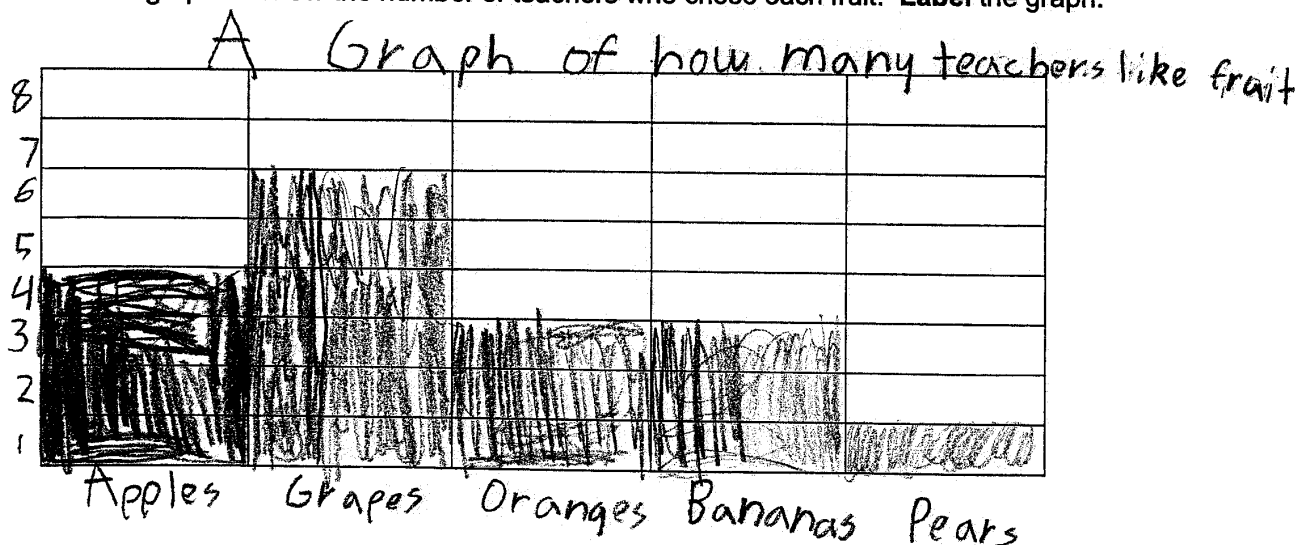| Teacher	Favorite Fruit	Teacher	Favorite Fruit
Mrs. Davis	Apples	Mrs. Baker	Apples
Mr. White	Grapes	Ms. Cole	Oranges
Mrs. Smith	Apples	Mr. Lopez	Pears
Ms. Jones	Oranges	Mrs. Green	Grapes
Miss Lowe	Bananas	Ms. Black	Bananas
Mrs. Miller	Grapes	Mr. Garcia	Oranges
Mr. Hill	Bananas	Mrs. Moss	Grapes
Mr. Jay	Grapes	Mr. Johns	Grapes
Mr. Cook	Bananas	Miss Jewel	Apples

a. Use tally marks to show the fruit choices.

IIII Apples

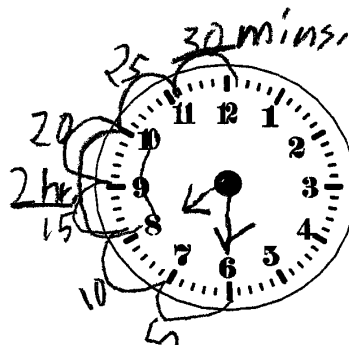LHI I Grapes   HH

III Oranges

III Bananas

I Pears

> **Understanding of the problem/situation presented**

b. Make a graph to show the number of teachers who chose each fruit. **Label** the graph.

A Graph of how many teachers like fruit

8
7
6
5
4
3
2
1

Apples   Grapes   Oranges   Bananas   Pears

3.   White Pine School starts at 8:30 AM.
Morning recess begins at 10:00 AM.
Lunch begins at 11:50 AM and lasts 40 minutes.
Afternoon recess begins at 1:45 PM.
School is dismissed at 3:00 PM.

(handwritten on clock: 30 mins, 25, 20, 2 hr, 15)

a. How long is it from the start of the school day to the beginning of morning recess? *Show or explain how you found your answer.*
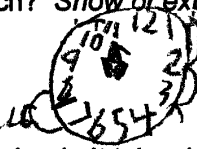
(handwritten: 8:30 3:00 10:00 11:50 11:45 10:00 11:50 1:45 3:00)

(circled: 2 hrs. and 30 mins.)

(circled: I used the clock)

b. What time does class begin after lunch? *Show or explain how you found your answer.*

(handwritten:
11:50
+ 40
12:00

11:50
+ 40

clock drawing

11:50 - 10
12:00 - 20
12:10 - 30
12:30 - 40

(circled: at 12:30.))*

c. Clark plays soccer for an hour after school. It takes him 25 minutes to walk home. What time will he get home if he leaves school right after playing soccer? *Show or explain how you found your answer.*

(handwritten: 3:00 + 1hr. = 4:00 + 25 = 4:25)

(circled: he will get home at 4:25)

4.   Jill's dad decided to make a garden with 4 sides. made the garden 12 feet long and 10 feet wide.

a. Draw a picture of the garden's **shape**. **Label the** each of the 4 sides **on your picture.**

(yellow callout: Correct problem-solving strategies)

b. If Jill's dad wanted to put a fence around the garden, how many feet of fence would he need? *Show or explain how you found your answer.*

5.   Bob went shopping and bought these items:

> Paper $2.75
> Glue $1.25
> Crayons $1.50
> Pencils . . . .   ?

a. How much did Bob spend on the first three items? *Show or explain how you found your answer.*

Bob spent $5.50.

$$\begin{array}{r} \$\overset{1}{2}.\overset{1}{7}5 \\ 1.25 \\ +\,1.50 \\ \hline \$5.50 \end{array}$$

Effective problem-solving strategies

b. Bob spent a total of $6.85 for the **four** items. Figure out the price of the pencils. Write a **number sentence** that shows how to solve the problem.

$$\begin{array}{r} \$5.50 \\ +\,1.35 \\ \hline \$6.85 \end{array}$$

pencils are $1.35

Adaptable processes

c. Bob paid for his supplies with a $10.00 bill. How much change did he get back? *Show or explain how you found your answer.*

$$\begin{array}{r} \$\overset{0}{\cancel{1}}\overset{9}{\cancel{0}}.\overset{9}{\cancel{0}}\overset{}{\cancel{0}} \\ -\,6.85 \\ \hline \$4.15 \end{array}$$

his change is $4.15.

Occasional computational or surface errors